

STEVEN L. BESHEAR

GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

ROBERT D. VANCE

SECRETARY

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601
www.kentucky.gov

February 25, 2008

Michael K. Jones Barlow WWTP 139 N 4th Street Barlow, KY 42024

> Re: KPDES Application Notice of Deficiency KPDES No.: KY0025747 Barlow WWTP AI ID: 44 Activity ID: APE20080004 Ballard County, Kentucky

Dear Mr. Jones,

Your Kentucky Pollutant Discharge Elimination System (KPDES) permit application for the above-referenced facility was received by the Division of Water on January 08, 2008. A completeness review of your permit application has been conducted and the application has been determined to be incomplete. Please complete the deficiencies listed below and return to me at the following address within thirty (30) days of the date of this letter.

Division of Water, KPDES Branch ATTN: Ms. Sara Beard 14 Reilly Road, Frankfort Office Park Frankfort, Kentucky 40601

- 1. Complete the enclosed Form 1 according to form instructions.
- 2. Complete the section (B3) circled in red on the enclosed Form A.

Failure to return the requested information within thirty (30) days may result in the Cabinet returning your application to you and retaining filing fees that have been paid, as per 401 KAR 5:300, Section 2(2). If you have any questions concerning this request, please call me at (502) 564-8158, extension 652.

Sincerely,

Allen Ingram II

Environmental Engineer Assistant I

KPDES Branch Division of Water

ALI

Enclosures

c: Division of Water Files





Florence & Hutcheson, Inc.

CONSULTING ENGINEERS

JAN. 8 2008

January 4, 2008

Mr. Larry Sowder **KPDES Branch** KY Division of Water 14 Reilly Road Frankfort, KY 40601

RE: **KPDES Permit Application**

Wastewater Treatment Plant Replacement

Barlow, Ballard County, Kentucky

Dear Mr. Sowder:

The City of Barlow has employed the services of Florence & Hutcheson, Inc. to complete a KPDES permit application for a proposed wastewater treatment plant. The attached application includes the replacement of the existing wastewater plant consistent with the City's approved 201 Facilities Plan and approved Waste Load Allocation for the above mentioned sewage treatment plant. The replacement will provide a wastewater treatment capacity of 0.15 mgd.

Enclosed, please find one (1) copy of the KPDES permit application for your review. Please note that Part D through G are not required for this project. Two location maps are also provided for your review

Please feel free to contact myself or Charles McCann, E.I., at 270-444-9691, if you have any questions or if we can be of further assistance.

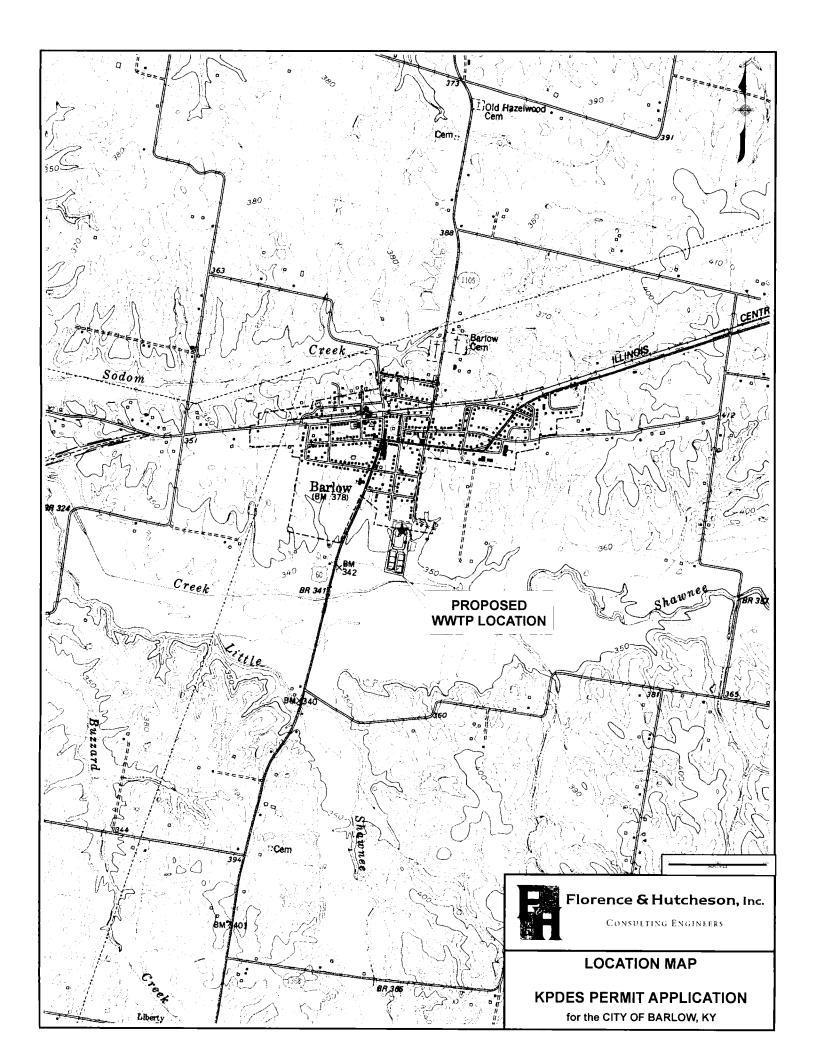
Sincerely,

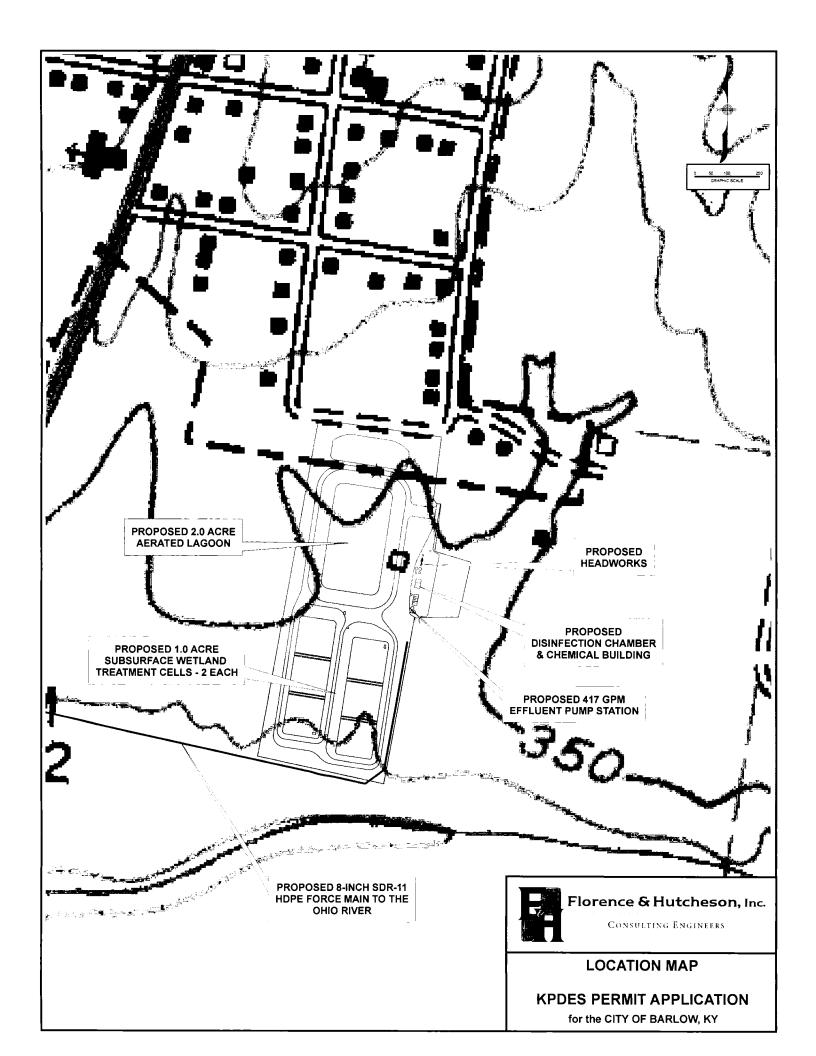
FLORENCE & HUTCHESON, INC.

Michael K. Jones, P.E. **Project Engineer**

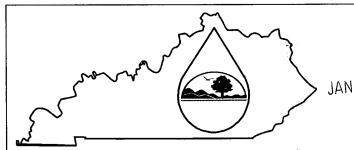
CC: Mayor John Wood - City of Barlow, KY

#07101





AI: 44



KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

A complete application consists of this form and Form 1. For additional information, contact KPDES Branch (502) 564-3410.

8 2008

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APPLICATION OVERVIEW	USE		\cup	X	L2	/	7	
	N. A. C.		00000000000000000000000000000000000000	0000000000077730077776762		digital significant production of the	ESTERBURBERA DERVESTMENT N.	greenedad in the secretary for the sign

Form A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - Any other industrial user that:
 - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

۱F	T A. BASIC APPL	ICATION IN	IFORMATION FOR ALL A	PPLICANTS:	
tı	eatment works must	complete qu	estions A.1 through A.8 of t	his Basic Application Information pac	ket.
	Facility Information	•			
	Facility name	City of Bar	low Wastewater Treatment Pl	ant	
	Mailing Address	139 N. 4 th	Street		
		Barlow, K	Y 42024		
	Contact person	Mayor Joh	n Wood		
	Title	Mayor			
	Telephone number	(270) 334-	3500		
	Facility Address	South 6 th	Street		
	(not P.O. Box)	Barlow, K	Y 42024		
	Applicant Informati	on. If the app	licant is different from the abo	ve, provide the following:	
	Applicant name				
	Mailing Address				
	Walling Address	· · · · · · · · · · · · · · · · · · ·			
	Contact person				
	·				
	Title	 			
	Telephone number				
	* *		erator (or both) of the treatm	ent works?	
	⊠ Owner	⊠	Operator		
	Indicate whether con	espondence i	regarding this permit should be Applicant	e directed to the facility or the applicant.	
	·	_			
•	Existing Environme works (include state-			f any existing environmental permits tha	t have been issued to the treatment
	KPDES KPDES	KY0025747		PSD	
•				palities and areas served by the facility. ection system (combined vs. separate) a	
	Name		Population Served	Type of Collection System	Ownership
	Barlow, KY		715	Separate Collection System	Municipal

A.5.	Inc	lian Cour	itry.												
	a.	Is the tre	atment w	orks located	in India	an Coun	try?								
			Yes		\boxtimes	No									
	b.		treatmer Indian Co		harge t	o a rece	iving water t	that is either	in Indian Counti	ry or that is	upsti	ream from	(and eve	ntually	y flows
			Yes		\boxtimes	No									
A.6.	ave	erage daily	y flow rate	and maxim	um dail	y flow ra	ate for each	of the last th	vater flow rate th ree years. Each ior to this applica	n year's dat	a mu	built to ha	andle). Als ed on a 12	so pro -moni	ovide the th time period
	a.	Design fl	low rate	0.15		mgd									
						-	Two Years A	<u>\go</u>	Last Year			This Ye	<u>ar</u>		
	b.	Annual a	verage da	aily flow rate			0.083		0.087		_	0.070			_ mgd
	c.	Maximur	n daily flo	w rate			0.258		0.324		_	0.220			_ mgd
A. 7.		ollection S			ype(s)	of collec	tion system((s) used by t	he treatment pla	ant. Check	all th	at apply.	Also estim	ate tl	ne percent
		⊠ s	eparate sa	anitary sewe	r							100			_ %
		□ c	ombined :	storm and sa	anitary s	sewer									_ %
A.8.	Dis	scharges	and Othe	er Disposal	Method	ds.									
	a.	Does the	e treatmer	nt works disc	harge e	effluent t	to waters of	the U.S.?			\boxtimes	Yes	ı	7	No
					_				the treatment v	vorks uses:	_		•	_	
		•		treated efflu		ŭ							1		
		ii. Disc	harges of	untreated or	partial	ly treate	d effluent								
		iii. Com	bined sev	ver overflow	points										
		iv. Con:	structed e	mergency o	· verflows	s (prior t	o the headw	orks)							
		v. Othe		,		"		,							
	b.						to basins, po		r surface impou	ndments		Yes		X	No
					•		mpoundmen					100	•		110
		Location		9				= -							
		Annual a	verage da	aily volume o	discharg	ged to si	urface impou	undment(s)		mgd					
		is discha	arge [] continu	ous or		intermitten	t?							
	c.	Does the	treatmer	nt works land	i-apply	treated	wastewater?	,				Yes		X	No
		If yes, pr	ovide the	following for	each la	and app	lication site:								
		Location	:												
		Number	of acres:												
		Annual a	verage da	aily volume a	applied	to site:			mgd						
		is land a	pplication	☐ con	tinuous	or [☐ intermitt	ent?							
	d.		e treatmer nt works?	nt works disc	harge o	or transp	oort treated o	or untreated	wastewater to a	nother		Yes	1	Ⅺ	No

If transport is by a part	other than the applicant, p	provide:					
Transporter name:							
Mailing Address:							
Contact person:					 		
Title:							
Telephone number:							
Name:					 		
Mailing Address:							
Contact person:							
Contact person:							
•							
Title: Telephone number:	PDES permit number of the						
Title: Telephone number: If known, provide the k		e treatment wor	ks that receives this			mgd	
Title: Telephone number: If known, provide the K Provide the average da Does the treatment wo	PDES permit number of the	e treatment wor nent works into f its wastewater	ks that receives this of the receiving facility.	discharge.	Yes	mgd	No
Title: Telephone number: If known, provide the k Provide the average da Does the treatment wo A.8.a through A.8.d ab	PDES permit number of the silvent flow rate from the treatment is discharge or dispose of	e treatment worknent works into	ks that receives this of the receiving facility.	discharge.	 Yes		No

WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

). De	es	scription of Outfall.							
a.		Outfall number	001						
b.		Location	Ohio River						
			(City or town, if applicable)				(Zip Code)	
			Ballard	•				Kentucky	
			(County)					(State)	
			N 37-04-25					W 89-09-09	
			(Latitude)				-,	(Longitude)	
c.		Distance from shore (if a	pplicable)	50			ft.		
							ft.		
d.	•	Depth below surface (if a	ірріїсавіе)				, 11.		
e.	•	Average daily flow rate		0.15			mgd		
f.		Does this outfall have eit	her an intermittent or a						
		periodic discharge?			Yes	\boxtimes	No	(go to A.9.g.)	
		If yes, provide the followi	ing information:						
		Number of times per yea	r discharge occurs:				-		
		Average duration of each	n discharge:				-		
		Average flow per dischar	rge:				mgd		
		Months in which discharg	ge occurs:				•		
g.		Is outfall equipped with a	diffuser?		Yes	\boxtimes	No		
0. De	es	cription of Receiving W	/aters.						
a.		Name of receiving water	Ohio River						
h		Name of watershed (if kr	oown)						
b.	•	Name of watershed (if kr	nown)						
b.		Name of watershed (if kr United States Soil Conse		watershed code	e (if know	n): _			
			ervation Service 14-digit		∍ (if knowi	n): _			
		United States Soil Conse	ervation Service 14-digit nent/River Basin (if know	n):		_	: _		
c.		United States Soil Conse Name of State Managem United States Geological	ervation Service 14-digit nent/River Basin (if know I Survey 8-digit hydrolog	n): c cataloging ur		_	: _		
c.	•	United States Soil Conse	ervation Service 14-digit nent/River Basin (if know I Survey 8-digit hydrolog ring stream (if applicable	n): c cataloging ur	nit code (if	_	_	cfs	

A.TT. Desci	cription of Tre								
a. W	What levels of		· _	_					
	⊠ Prima	-			•				
	☐ Advar	iced	L] Other. D	escribe:				
b. In	ndicate the fol	lowing remova	al rates (as ap	oplicable):					
	$Design\;BOD_{\scriptscriptstyle{5}}$	removal or De	esign CBOD ₅	removal		_88		%	
	Design SS re	moval				_ 93		<u></u> %	
	Design P rem	oval						<u></u> %	
:	Design N rem	oval				_50		%	
1	Other							<u></u> %	
c. W	What type of d	isinfection is u	used for the e	ffluent from th	is outfall? If disin	nfection varies	by season, ple	ease describe.	
	Chlorine Disir						-,		
			is dochlor	ination used for	this sutfall?		M Vac		
	f disinfection is	•	,		or this outlant		⊠ Yes	□ No	
d. D	Does the treatr	nent plant hav	/e post aerati	on?			☐ Yes	⊠ No	
collec 40 CF minir	ected through FR Part 136 a	analysis con	nducted usin propriate QA/	g 40 CFR Par QC requirem	t 136 methods. ents for standa	In addition, t	this data mus or analytes no	st comply with ot addressed I	I must be based on data n QA/QC requirements of by 40 CFR Part 136. At a ne-half years apart.
disch collec 40 CF minin	ected through FR Part 136 a mum, effluen	analysis con ind other app t testing data	nducted usin propriate QA/	g 40 CFR Par (QC requirements of a least sed on at least MAXIMUM	t 136 methods. ents for standar st three sample: — M DAILY VALUE	In addition, t rd methods fo s and must be	this data mus or analytes no e no more tha	et comply with ot addressed I an four and or ERAGE DAILY	n QA/QC requirements of by 40 CFR Part 136. At a ne-half years apart.
disch collec 40 CF minin	ected through FR Part 136 a mum, effluen all number:	analysis con ind other app t testing data	nducted usin propriate QA/	g 40 CFR Par QC requirements sed on at leas	t 136 methods. ents for standa st three sample: 	In addition, t rd methods fo s and must be	this data mus or analytes no e no more tha	st comply with ot addressed I an four and or	n QA/QC requirements of by 40 CFR Part 136. At a ne-half years apart.
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disch collec 40 CF minin Outfa	ected through FR Part 136 a Imum, effluen all number: PARAN um)	analysis con ind other app t testing data	nducted usin propriate QA/	MAXIMUN Value 6.9	t 136 methods. ents for standar st three sample. M DAILY VALUE Units s.u.	In addition, trd methods for s and must be	this data mus or analytes no e no more tha	et comply with ot addressed I an four and or ERAGE DAILY	n QA/QC requirements of by 40 CFR Part 136. At a ne-half years apart. Y VALUE
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disch collec 40 CF minin Outfa PH (Minimu pH (Maximu Flow Rate Temperatur * For	ected through FR Part 136 a imum, effluen all number: PARAN PAR	analysis con and other app testing data 001 METER Doort a minimur BOD-5	m and a maxi MAXIMU DISCI Conc.	MAXIMUN Value 6.9 8.3 0.712 N/A N/A mum daily val JM DAILY HARGE Units	t 136 methods. ents for standars three sample. A DAILY VALUE Units s.u. s.u. mgd ue AVERAG Conc.	In addition, trd methods for s and must be sand must be s	AVI alue AVI	ERAGE DAILY Units METHOD	A QA/QC requirements of by 40 CFR Part 136. At me-half years apart. Y VALUE Number of Sample Cont. Con

*E.Coli

130 per 100 mL

BA	SIC APPLICATION INFORMATION
PAR	RT B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).
All a	pplicants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).
B.1.	Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration. 190,000 gpd Briefly explain any steps underway or planned to minimize inflow and infiltration. The entire sewer network has recently been smoke tested to identify problem areas within the system. A sewer rehab project is currently under review by the KDOW to repair approximately 2,685 l.f. of sewer and 10 manholes. In addition, approximately 70
	sewer lateral lines are to be repaired.
B.2.	Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)
	a. The area surrounding the treatment plant, including all unit processes.
	b. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	c. Each well where wastewater from the treatment plant is injected underground.
	d. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	f. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.
В.3.	Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.
B.4.	Operation/Maintenance Performed by Contractor(s).
	Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? \square Yes \square No
	If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).
	Name:
	Mailing Address:
	Telephone Number:
	Responsibilities of Contractor:
B.5.	Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.)
	a. List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.
	001
	 b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies. ☐ Yes ☒ No

á	applicable. For im applicable. Indicat	provements plann	ed independently of local	ctual dates of completion for the implementation steps listed below, as l, State, or Federal agencies, indicate planned or actual completion date
			Schedule	Actual Completion
ı	mplementation St	age	MM / DD / YYYY	MM / DD / YYYY
-	- Begin construction		04/01/2009	
-	- End construction	ı	10/01/2009	
-	- Begin discharge		10/15/2009	
-	- Attain operationa	ıl level	12/01/2009	
	Have appropriate p	Regional Facilitie 02/27/07). Preliminary was	es Plan dated January 20 te load allocation letter date ermit application, drawing	al/State requirements been obtained? Yes No Oo6 was approved by KY Division of Water. (Approval Letter dated ated 11-30-07 from the KY Division of Water. gs, specs, and support information have been sent to the KDOW for

B.6. EFFLUENT TESTING DATA (GREATER THAN O.1 MGD ONLY).

Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall Number: 001

POLLUTANT	MAXIMUN DISCH		AVERA	GE DAILY DISC	CHARGE		
	Conc.	Units	Conc.	Units	Number of Samples	ANALYTICAL METHOD	ML/MDL
CONVENTIONAL AND NON	CONVENTIONAL	COMPOUNDS	δ.		01		
AMMONIA (as N)	31.0	mg/L	9.0	mg/L	32	Comp	10/15
CHLORINE (TOTAL RESIDUAL, TRC)	<0.01	mg/l	<0.01	mg/l	32	Grab	.01/.019
DISSOLVED OXYGEN	8.5	mg/L	5.63	mg/L	32	Grab	7.0
TOTAL KJELDAHL NITROGEN (TKN) NITRATE PLUS NITRITE NITROGEN							
OIL and GREASE							
PHOSPHORUS (Total)	Monitor only						
TOTAL DISSOLVED SOLIDS (TDS)							
OTHER							

END OF PART B. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM A YOU MUST COMPLETE

PART C. CERTIFICATION	N	
applicants must complete all	applicable sections omitting. By signing th	tion. Refer to instructions to determine who is an officer for the purposes of this certification. All of Form A, as explained in the Application Overview. Indicate below which parts of Form A you also certification statement, applicants confirm that they have reviewed Form A and have completed application is submitted.
Indicate which parts o	f Form A you have o	completed and are submitting:
	formation packet	Supplemental Application Information packet:
		☐ Part D (Expanded Effluent Testing Data)
		☐ Part E (Toxicity Testing: Biomonitoring Data)
		☐ Part F (Industrial User Discharges and RCRA/CERCLA Wastes)
		☐ Part G (Combined Sewer Systems)
ALL APPLICANTS MUST CO	OMPLETE THE FOL	LOWING CERTIFICATION.
designed to assure that quali who manage the system or the	fied personnel proper hose persons directly	and all attachments were prepared under my direction or supervision in accordance with a system rly gather and evaluate the information submitted. Based on my inquiry of the person or persons responsible for gathering the information, the information is, to the best of my knowledge and that there are significant penalties for submitting false information, including the possibility of fine
and imprisonment for knowin		, g , g
	g violations. Mayor John Wood	
and imprisonment for knowin	g violations. Mayor John Wood	
and imprisonment for knowin Name and official title	g violations. Mayor John Wood	
and imprisonment for knowin Name and official title Signature	Mayor John Wood	

SEND COMPLETED FORMS TO:

Division of Water, KPDES Branch Inventory & Data Management Section Frankfort Office Park 14 Reilly Road Frankfort, Kentucky 40601

For additional information call: (502) 564-2225, extension 465.

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	١		IM DAIL' HARGE	Y	Α\	'ERAGE	DAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
METALS (TOTAL RECOVERABLE),	CYANIDE,	PHENOL	S, AND I	IARDNES	SS.					L.	
ANTIMONY		mg/L				mg/L				Atomic Absorption Spectrophotometer	
ARSENIC	.002 U	mg/L			.002 U	mg/L				Silver Diethyldithiocarbamate or Atomic Absorption Spectrophotometer	
BERYLLIUM		mg/L	:			mg/L				Aluminon or Atomic Absorption Spectrophotometer	
CADMIUM	.002 U	mg/L			.002 U	mg/L				Atomic Absorption Spectrophotometer or Colorimetric	
CHROMIUM	.002 U	mg/L			.002 U	mg/L				Atomic Absorption Spectrophotometer or Colorimetric	
COPPER	.002 U	mg/L			.002 U	mg/L				Atomic Absorption Spectrophotometer or Colorimetric	
LEAD	.002 U	mg/L			.002 U	mg/L				Atomic Absorption Spectrophotometer or Colorimetric	
MERCURY	2.6	ng/L			2.6	ng/L				Flameless Atomic Absorption Procedure	
NICKEL	.002 U	mg/L			.002 U	mg/L				Absorption or Atomic Spectrophotometer	
SELENIUM	.002 U	mg/L			.002 U	mg/L				Colorimetric- Diaminobenzidine	
SILVER	.002 U	mg/L			.002 U	mg/L				Atomic Absorption Spectrophotometer	
THALLIUM		mg/L				mg/L				Atomic Absorption Spectrophotometer	
ZINC	.004	mg/L			.004	mg/L				Colormetric, or Atomic Absorption Spectrophotometer	
CYANIDE	.002 U	mg/L			.002 U	mg/L				Distillation-SPADNS Automated Complexone or Electrode	
TOTAL PHENOLIC COMPOUNDS	0.19	mg/L			0.19	mg/L				Colorimetric, 4-AAP	
HARDNESS (AS CaCO ₃)	167	mg/L			167	mg/L				EDTA Titration- Automated Colorimetric, or Atomic Absorption Spectrophotometer	
Use this space (or a separate sheet) t	o provide int	formation	on other	metals red	quested by	the pern	nit writer.				
	<u> </u>										

									nited States	.)	
POLLUTANT		DISCH	M DAIL'				DAILY				
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
VOLATILE ORGANIC COMPOUNDS.	1	<u> </u>	<u> </u>			l. Sa		L	Gamples		
ACROLEIN											
ACRYLONITRILE											
BENZENE											
BROMOFORM										:	
CARBON TETRACHLORIDE											
CLOROBENZENE											
CHLORODIBROMO-METHANE											
CHLOROETHANE											
2-CHLORO-ETHYLVINYL ETHER											
CHLOROFORM											
DICHLOROBROMO-METHANE											
1,1-DICHLOROETHANE											
1,2-DICHLOROETHANE											
TRANS-1,2-DICHLORO-ETHYLENE											
1,1-DICHLOROETHYLENE											
1,2-DICHLOROPROPANE											
1,3-DICHLORO-PROPYLENE											
ETHYLBENZENE											
METHYL BROMIDE											
METHYL CHLORIDE											
METHYLENE CHLORIDE											
1,1,2,2-TETRACHLORO-ETHANE											
TETRACHLORO-ETHYLENE											
TOLUENE											

Outfall number: 001 (Con	nplete on	ce for e	ach outf	all disch	arging ef	fluent to	waters	of the U	Inited States	5.)	
POLLUTANT	N		IM DAILY IARGE	1	A۱	/ERAGI	DAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number	ANALYTICAL	ML/ MDL
									of Samples	METHOD	
1,1,1-TRICHLOROETHANE											
1,1,2-TRICHLOROETHANE											
TRICHLORETHYLENE											
VINYL CHLORIDE											
Use this space (or a separate sheet) to p	provide inf	ormatior	on other	volatile or	ganic com	pounds i	equested	by the pe	ermit writer.		
ACID-EXTRACTABLE COMPOUNDS											
P-CHLORO-M-CRESOL											
2-CHLOROPHENOL											
2,4-DICHLOROPHENOL											
2,4-DIMETHYLPHENOL											
4,6-DINITRO-O-CRESOL											
2,4-DINITROPHENOL											
2-NITROPHENOL											
4-NITROPHENOL											
PENTACHLOROPHENOL											
PHENOL			·								
2,4,6-TRICHLOROPHENOL											
Use this space (or a separate sheet) to p	provide inf	ormation	on other	acid-extra	ctable cor	npounds	requested	by the p	ermit writer.		
BASE-NEUTRAL COMPOUNDS.											
ACENAPHTHENE											
ACENAPHTHYLENE											
ANTHRACENE											
BENZIDINE											
BENZO(A)ANTHRACENE									-		<u> </u>
BENZO(A)PYRENE											

	-								nited States	.)	
POLLUTANT	٨		JM DAIL' HARGE	Y	A۱	/ERAGE	DAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
3,4 BENZO-FLUORANTHENE											
BENZO(GHI)PERYLENE											
BENZO(K)FLUORANTHENE											
BIS (2-CHLOROETHOXY) METHANE											
BIS (2-CHLOROETHYL)-ETHER											
BIS (2-CHLOROISO-PROPYL) ETHER											
BIS (2-ETHYLHEXYL) PHTHALATE											
4-BROMOPHENYL PHENYL ETHER											
BUTYL BENZYL PHTHALATE											
2-CHLORONAPHTHALENE											
4-CHLORPHENYL PHENYL ETHER											
CHRYSENE	i.										
DI-N-BUTYL PHTHALATE											
DI-N-OCTYL PHTHALATE											
DIBENZO(A,H) ANTHRACENE											
1,2-DICHLOROBENZENE											
1,3-DICHLOROBENZENE											
1,4-DICHLOROBENZENE											
3,3-DICHLOROBENZIDINE											
DIETHYL PHTHALATE											
DIMETHYL PHTHALATE											
2,4-DINITROTOLUENE											
2,6-DINITROTOLUENE											
1,2-DIPHENYLHYDRAZINE											

POLLUTANT	,		IM DAIL' HARGE		A	/ERAGI	EDAILY	DISCH	ARGE			
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL	
FLUORANTHENE												
FLUORENE												
HEXACHLOROBENZENE												
HEXACHLOROBUTADIENE												
HEXACHLOROCYCLO- PENTADIENE												
HEXACHLOROETHANE												
INDENO(1,2,3-CD)PYRENE												
ISOPHORONE												
NAPHTHALENE												
NITROBENZENE												
N-NITROSODI-N-PROPYLAMINE												
N-NITROSODI- METHYLAMINE								- 1111				
N-NITROSODI-PHENYLAMINE												
PHENANTHRENE												
PYRENE												
1,2,4-TRICHLOROBENZENE												
Use this space (or a separate sheet) to	provide inf	ormation	on other l	base-neu	tral compo	unds req	uested by	the perm	nit writer.			
Use this space (or a separate sheet) to	provide inf	ormation	on other i	pollutants	(e.g., pes	ticides) re	equested b	y the pe	rmit writer.			

END OF PART D.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

A YOU MUST COMPLETE

PART E. TOXICITY TESTING DATA POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters. At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted. If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete. E.1. Required Tests. Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years. chronic acute E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported. Test number: Test number: Test number: a. Test information. Test species & test method number Age at initiation of test Outfall number Dates sample collected Date test started Duration b. Give toxicity test methods followed. Manual title Edition number and year of publication Page number(s) c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used. 24-Hour composite Grab d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each) Before disinfection After disinfection After dechlorination

SUPPLEMENTAL APPLICATION INFORMATION

	Test number:	Test number:	Test number:			
e. Describe the point in the treatm	nent process at which the sample wa	s collected.				
Sample was collected:						
f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.						
Chronic toxicity						
Acute toxicity						
g. Provide the type of test perform	ned.					
Static						
Static-renewal						
Flow-through						
h. Source of dilution water. If labor	pratory water, specify type; if receiving	g water, specify source.				
Laboratory water						
Receiving water						
i. Type of dilution water. If salt wa	ater, specify "natural" or type of artific	cial sea salts or brine used.				
Fresh water						
Salt water						
j. Give the percentage effluent use	ed for all concentrations in the test se	eries.				
and the second second	i i					
Same 12 - La Trans						
100种数据数据						
k. Parameters measured during the	ne test. (State whether parameter me	eets test method specifications)				
РН						
Salinity						
Temperature						
Ammonia						
Dissolved oxygen						
I. Test Results.						
Acute:						
Percent survival in 100% effluent	%	%	%			
LC ₅₀						
95% C.I.	%	%	%			
Control percent survival	%	%	%			
Other (describe)						

Chronic:						
NOEC	%	%	%			
IC ₂₅	%	%	%			
Control percent survival	%	%	%			
Other (describe)						
m. Quality Control/Quality Assurar	nce.					
Is reference toxicant data available?	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO			
Was reference toxicant test within acceptable bounds?	☐YES ☐NO	□ YES □ NO	☐ YES ☐ NO			
What date was reference toxicant test run (MM/DD/YYYY)?						
Other (describe)						
E.4. Summary of Submitted Biomonito	oring Test Information. If you have ur and one-half years, provide the da	e submitted biomonitoring test inform tes the information was submitted to	ation, or information regarding the the permitting authority and a			
END OF PART E. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM A YOU MUST COMPLETE.						

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SUPPLEMENTAL APPLICATION INFORMATION INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES PART F. All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F. **GENERAL INFORMATION:** F.1. Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program? ☐ Yes ☑ No F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works. a. Number of non-categorical SIUs. 0 0 b. Number of CIUs. SIGNIFICANT INDUSTRIAL USER INFORMATION: Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU. F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary. Name: Mailing Address: F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge. F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge. Principal product(s): Raw material(s): F.6. Flow Rate. a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. continuous or intermittent b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. ☐ continuous or ☐ intermittent gpd F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following: ☐ Yes ☐ No a. Local limits b. Categorical pretreatment standards ☐ Yes ☐ No If subject to categorical pretreatment standards, which category and subcategory?

☐ Yes ☐ No If yes, describe eac	e past three years?	
	ch episode.	
CRA HAZARDOUS WASTE RECEIVED BY TR		
 RCRA Waste. Does the treatment works receive pipe? Yes No (go to F.12.) 	or has it in the past three years received RC	CRA hazardous waste by truck, rail, or dedicate
10. Waste Transport. Method by which RCRA was		
☐ Truck ☐ Rail ☐ Dedicated	Pipe	
11. Waste Description. Give EPA hazardous waste	e number and amount (volume or mass, spe	cify units).
EPA Hazardous Waste Number	<u>Amount</u>	<u>Units</u>
ERCLA (SUPERFUND) WASTEWATER, RCR	A REMEDIATION/CORRECTIVE	
CTION WASTEWATER, AND OTHER REMED		
12. Remediation Waste. Does the treatment works	s currently (or has it been notified that it will)	receive waste from remedial activities?
☐ Yes (complete F.13 through F.15.)	□ No	
Provide a list of sites and the requested informa	tion (F.13 - F.15.) for each current and future	e site.
.13. Waste Origin. Describe the site and type of fac	cility at which the CERCLA/RCRA/or other re	medial waste originates (or is expected to
originate in the next five years).		
.14. Pollutants. List the hazardous constituents tha	t are received (or are expected to be receive	d). Include data on volume and concentration,
.14. Pollutants. List the hazardous constituents tha known. (Attach additional sheets if necessary).	t are received (or are expected to be receive	d). Include data on volume and concentration,
	t are received (or are expected to be receive	d). Include data on volume and concentration,
	t are received (or are expected to be receive	d). Include data on volume and concentration,
	t are received (or are expected to be received	d). Include data on volume and concentration,
known. (Attach additional sheets if necessary).		d). Include data on volume and concentration,
known. (Attach additional sheets if necessary). f.15. Waste Treatment. a. Is this waste treated (or will it be treated) price		d). Include data on volume and concentration,
known. (Attach additional sheets if necessary). 5.15. Waste Treatment. a. Is this waste treated (or will it be treated) price Yes \[\sum \text{No} \]	or to entering the treatment works?	d). Include data on volume and concentration,
known. (Attach additional sheets if necessary). 15. Waste Treatment. a. Is this waste treated (or will it be treated) price	or to entering the treatment works?	d). Include data on volume and concentration,
known. (Attach additional sheets if necessary). F.15. Waste Treatment. a. Is this waste treated (or will it be treated) price Yes No	or to entering the treatment works?	d). Include data on volume and concentration,
known. (Attach additional sheets if necessary). 5.15. Waste Treatment. a. Is this waste treated (or will it be treated) price Yes No If yes, describe the treatment (provide inform	or to entering the treatment works? nation about the removal efficiency):	d). Include data on volume and concentration,
known. (Attach additional sheets if necessary). F.15. Waste Treatment. a. Is this waste treated (or will it be treated) price	or to entering the treatment works? nation about the removal efficiency): ntinuous or intermittent?	
known. (Attach additional sheets if necessary). 7.15. Waste Treatment. a. Is this waste treated (or will it be treated) priority of the provide information of the provide information.	or to entering the treatment works? nation about the removal efficiency):	
known. (Attach additional sheets if necessary). F.15. Waste Treatment. a. Is this waste treated (or will it be treated) price	or to entering the treatment works? nation about the removal efficiency): ntinuous or intermittent?	

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A YOU MUST COMPLETE

SU	PP	PLEMENTAL APPLICATION INFORMATION	
PAF	t (G. COMBINED SEWER SYSTEMS	
If the	tre	atment works has a combined sewer system, complete Part G	
G.1.	Sys	stem Map. Provide a map indicating the following: (may be include	ed with Basic Application Information)
	a.	All CSO discharge points.	
	b.	Sensitive use areas potentially affected by CSOs (e.g., beaches, and outstanding natural resource waters).	drinking water supplies, shellfish beds, sensitive aquatic ecosystems,
	C.	Waters that support threatened and endangered species potentia	lly affected by CSOs.
G.2.		stem Diagram. Provide a diagram, either in the map provided in Gat includes the following information:	i.1. or on a separate drawing, of the combined sewer collection system
	a.	Locations of major sewer trunk lines, both combined and separate	e sanitary.
	b.	Locations of points where separate sanitary sewers feed into the	combined sewer system.
	C.	Locations of in-line and off-line storage structures.	
	d.	Locations of flow-regulating devices.	
	e.	Locations of pump stations.	
cso	OL	UTFALLS:	A CAMBER OF THE STATE OF THE ST
Com	plet	te questions G.3 through G.6 once <u>for each CSO discharge poi</u>	nt.
G.3.	Des	scription of Outfall.	
	a.	Outfall number	
	b.	Location	
		(City or town, if applicable)	(Zip Code)
		(County)	(State)
		(Latitude)	(Longitude)
	c.	Distance from shore (if applicable) ft.	
	d.	Depth below surface (if applicable) ft.	
	e.	Which of the following were monitored during the last year for this	CSO?
		☐ Rainfall ☐ CSO pollutant concentrations	☐ CSO frequency
		☐ CSO flow volume ☐ Receiving water quality	
	f.	How many storm events were monitored during the last year?	
G.4.	csc	O Events.	
	a.	Give the number of CSO events in the last year.	
		events (actual or approx.)	
	b.	Give the average duration per CSO event.	
		hours (☐ actual or ☐ approx.)	

	C.	Give the average volume per CSO event.
		million gallons (actual or approx.)
	d.	Give the minimum rainfall that caused a CSO event in the last year.
		inches of rainfall
G.5.	Des	cription of Receiving Waters.
	a.	Name of receiving water:
	b.	Name of watershed/river/stream system:
		United States Soil Conservation Service 14-digit watershed code (if known):
	c.	Name of State Management/River Basin:
		United States Geological Survey 8-digit hydrologic cataloging unit code (if known):
G.6.	csc	Operations.
	per	scribe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, manent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water slity standard).
		END OF PART G.
RE	FΕ	R TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM A YOU MUST COMPLETE.

Additional information, if provided, will appear on the following pages.